



D U S T C O N   T R A I N I N G

# Designing Combustible Dust Protection Systems

**Design Engineer/OEM  
Training Bundle**

# Course Description

Course Title	Duration	Course Description
<b>Combustible Dust Basics [Advanced]</b>	2 Hours	<p>Combustible Dust Hazards pose a serious risk to an organization's assets and personnel across a variety of industries. <b>This course will provide an introduction to what combustible dust is, dust explosion statistics, the hazards that arise from the handling of combustible dust, the regulations related to combustible dust, and the common protection schemes.</b> Examples of combustible dust incidents will be reviewed, including the Didion Milling explosion (2017).</p> <p><b>Advanced:</b> Additional time will be spent looking at Combustible Dust Test Methods, Hazard Identification, Specific</p>
<b>How to Navigate the NFPA Standards</b>	2 Hours	<p>Determining which of the NFPA Standards apply for your operation is not always obvious. With all the NFPA Standards (not to mention the other standards published by OSHA, FM, VDI, ATEX, etc.) that guide our industry on the safe handling of combustible dust, it can feel like a losing battle to just get started. <b>This course will give listeners the knowledge to sort through the Standards and determine their needs.</b> Specific attention will be paid to the requirements found in NFPA 652 and how these requirements compare to or differ from requirements in other standards.</p>
<b>Explosion Protection Design</b>	2 Hours	<p>There are various methods to protect a facility from the dangerous consequences of Dust Explosions. <b>This intensive course will deep-dive into the different methods available for both the prevention and mitigation technologies available.</b> Topics covered will include the design of Inerting Systems, Explosion Venting, Explosion Suppression, Explosion Isolation, vessel construction for Containment, and Spark Detection. Special attention will be paid to the advantages and disadvantages of each method based on industry and material type. Includes practice exercises designing protection schemes for an example specialty chemical system.</p>
<b>Safer by Design</b>	2 Hours	<p>Protecting your facility from the hazards of combustible dust does not always need to be expensive, nor does it always require the use of Explosion Protection Equipment. <b>This course will focus on how using Inherently Safer Designs will reduce the risk of the consequence before any protection layers are applied.</b> Topics include how to lay out a facility to separate fuel from ignition sources, avoiding the generation of dust clouds in processing, locating equipment wisely, and how designing for easy preventative maintenance. Includes case study on a dust explosion at Plywood Mill in Texas (2014).</p>



## Who Should Attend?

- Project Engineers
- Design Engineers
- Equipment Suppliers
- Fire Protection Professional
- Risk Managers
- Safety Managers



## How Courses are Offered

- On-Line
- In-Person



**Contact Us for More Information:**  
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